

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

LISTING OF CLAIMS

Claim 1 (Currently Amended): A method of managing and using borehole information, the method comprising:

collecting and storing information on at least one borehole in a control unit,
arranging at least one identifier, which includes machine-readable information, in connection with a borehole under examination and in physical contact with rock,
linking the stored information and the borehole under examination together by means of information read from the identifier,
and using the borehole information and location of the identifier for controlling drilling or charging of at least one borehole.

Claim 2 (Previously Presented): A method as claimed in claim 1, comprising
identifying the borehole under examination by reading an identification code included in the identifier,
and linking the information relating to the borehole by using the identification code.

Claim 3 (Previously Presented): A method as claimed in claim 1, comprising
identifying the borehole under examination by reading an identification code included in the identifier,
linking the information relating to the borehole by using the identification code,

storing information relating to the borehole in at least one control unit outside the identifier,

and linking the information included in the control unit on the identifier together on the basis of the identification code.

Claim 4 (Previously Presented): A method as claimed in claim 1, comprising using an identifier comprising at least one memory element for storing information, and storing information relating to the borehole under examination in the identifier.

Claim 5 (Previously Presented): A method as claimed in claim 1, comprising using an identifier comprising at least one memory element for storing information, storing information relating to the borehole under examination in the identifier, measuring the borehole under examination by means of at least one measuring device which includes at least one sensor,

measuring at least one of the following features: straightness of a borehole, dimensions of a borehole, rock type, and storing measurement information in the identifier.

Claim 6 (Previously Presented): A method as claimed in claim 1, comprising equipping a mine vehicle with a reader, identifying the borehole under examination by reading information included in the identifier by means of the reader, transmitting borehole information from the control unit in a system to a control device of the mine vehicle,

and using the borehole information for controlling at least one drilling unit or charging unit of the mine vehicle.

Claim 7 (Currently Amended): A system for managing borehole information, the system comprising:

at least one control unit wherein borehole information for controlling drilling or charging of at least one borehole is stored,

at least one identifier to be arranged in connection with a borehole under examination and in physical contact with rock,

and wherein the identifier includes machine-readable information, and wherein the system is arranged to link the stored information and the borehole under examination together by means of information read from the identifier.

Claim 8 (Withdrawn) An identifier for marking a borehole, the identifier comprising:

a frame,

means for fastening the identifier in connection with the borehole, an elongated frame which is at least partially insertable in the borehole, and at least one machine-readable identification code.

Claim 9 (Withdrawn) An identifier as claimed in claim 8, wherein the identifier comprises an elongated tubular frame.

Claim 10 (Withdrawn) An identifier as claimed in claim 8, the identifier comprises at least one memory element for storing information.

Claim 11 (Withdrawn) An identifier as claimed in claim 8, wherein the identifier comprises a transceiver for establishing a data transmission connection between the identifier and at least one external control unit.

Claim 12 (Withdrawn) An identifier as claimed in claim 8 wherein the identification code is a visually readable character.

Claim 13 (Previously Presented): A system as claimed in claim 7, wherein the identifier comprises an elongated tubular frame, and the tubular frame is inserted in a borehole.

Claim 14 (Previously Presented): A system as claimed in claim 7, the identifier comprises at least one memory element for storing information.

Claim 15 (Previously Presented): A system as claimed in claim 7 wherein the identifier comprises a transceiver for establishing a data transmission connection between the identifier and at least one external control unit.

Claim 16 (Previously Presented): A system as claimed in claim 7 wherein the identification code is a visually readable character.

Claim 17 (Currently Amended): A method of managing and using borehole information, the method comprising:

collecting and storing information on at least one borehole in a control unit,
arranging at least one identifier, which includes machine-readable information, in
connection with a borehole under examination and in physical contact with rock,
linking the stored information and the borehole under examination together by means
of information read from the identifier,
equipping a mine vehicle with a reader,
identifying the borehole under examination by reading information included in the
identifier by means of the reader,
transmitting borehole information from the control unit to a control device of the mine
vehicle,
and using the borehole information and location of the identifier for controlling at
least one drilling unit or charging unit of the mine vehicle.

Claim 18 (Previously Presented): A method as claimed in claim 1 comprising:
using at least one identifier comprising an elongated tubular frame,
inserting the tubular frame of the identifier in a borehole,
inserting in the borehole through the tubular frame of the identifier at least one of the
following: explosive, sealant material, cartridge, measuring equipment.

Claim 19 (Previously Presented): A method as claimed in claim 1, comprising:
fastening the identifier into the surface of rock.

Claim 20 (Previously Presented): A method as claimed in claim 1, comprising:
arranging the identifier in the bottom of a borehole.

Claim 21 (Currently Amended): A method as claimed in claim 1, comprising:
using at least one identifier comprising an elongated tubular frame,
fastening the identifier before drilling onto the surface of rock according to a drilling
plan,
and using the identifier for drilling the borehole through the tubular frame of the
identifier.